

*Electrolysis control*

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## Patent Number(s):

KR2003053726-A

## Title:

Method for controlling brush roll in continuous electrolytic degreasing process

## Inventor Name(s):

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## Patent Assignee Name(s) and Code(s):

POSCO (POSC-Non-standard)

## Derwent Primary Accession Number:

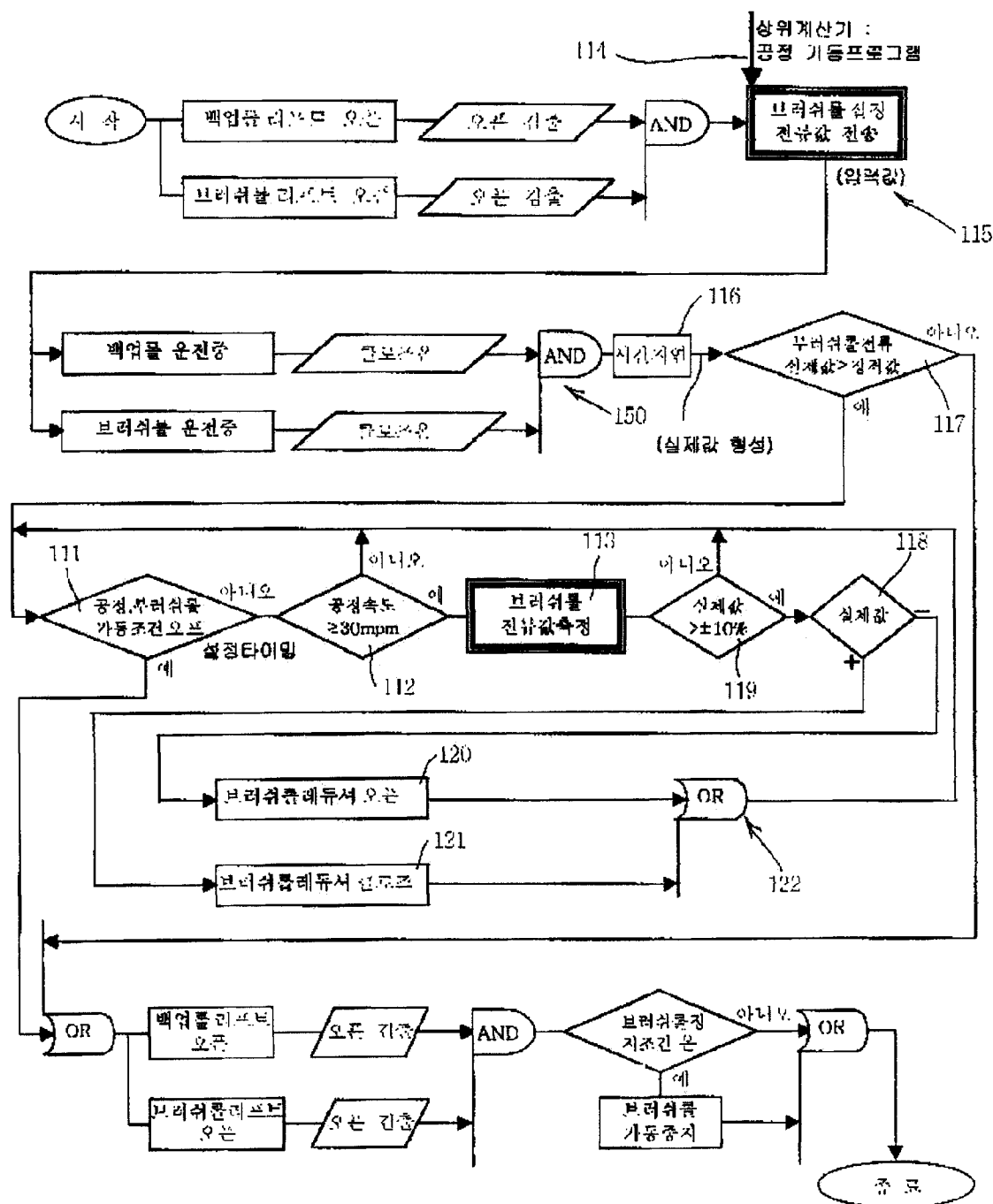
2003-798617 [75]

## Abstract:

NOVELTY - A method for controlling brush roll in continuous electrolytic degreasing process applied to electric cleaning line is provided to clean the surface of the strip by electrolyzing foreign materials such as rolling oil and iron powder remained on the surface of strip during the process of manufacturing cold rolled strip.

DETAILED DESCRIPTION - The method comprises first step(114,115) of starting **process** operation at supervisory **control computer** in the state that back up roll and brush roll are opened, receiving a set current value of the brush roll from the supervisory **control computer** and closing the back up roll and brush roll according to the set current value; second step(150,116,117) of determining whether load currents is deviated from rated voltage or not by comparing load currents (actual values) of the brush roll with rated value after closing the back up roll and brush roll; third step(111-113,119) of checking whether line speed is suitable for operation of the brush roll in case of normality by judging whether **control process** at the supervisory **control computer** and operating conditions of the brush roll are normal or not, and measuring load current of the brush roll in case that **process** speed is maintained to a set speed or more if the operating conditions are appropriate; fourth step(118,120-122) of controlling to close brush roll reduction jack if the load current is larger than the actual values while controlling to open the brush roll reduction jack if the load current is smaller than the actual values in case that the measured load current is included in the error range of actual values, and proceeding the third step after performing the **control process**; and fifth step of stopping operation of the brush roll by cutting off power supply after opening the brush roll and back up roll respectively in case that there is something wrong with current in the second step, or the operating conditions and **process** speed are not normal in the third step.

## Drawing:



**International Patent Classification:**  
**C25F-001/00**

**Derwent Class:**  
M11 (Electroplating including apparatus and electrolytic cleaning)

**Derwent Manual Code(s):**  
M11-H01

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